

A METHOD AND SYSTEM FOR CONTROLLING THE PROCESSING OF AN
INTEGRATED CIRCUIT CHIP ASSEMBLY LINE USING A CENTRAL COMPUTER
SYSTEM AND A COMMON COMMUNICATION PROTOCOL

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ABSTRACT OF THE DISCLOSURE

A method and system for controlling the processing of an IC chip assembly
line using a central computer system and a common communication protocol. In
one embodiment, a manufacturing execution system (MEM) is used as the computer
system and the communications protocol is the standard semi equipment

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communications standard/generic equipment model (SECS/GEM). One or more
equipment cell controllers (CC) may be used to communicate between the MES a
plurality of in-line substations which comprise the assembly line. Automated
vision camera systems may also communicate information to the MES via the CCs.

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In one embodiment, the MES maintains a database in memory comprising
processing history of a die-strip and results of automated die-strip examination from
the vision camera systems. In one embodiment, the die-strip may be of a ball grid
array (BGA) type.